APPENDIX J - Preparation Guidelines for Project Information Report

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APPENDIX J - Preparation Guidelines for Project Information Report

Use of Project Information Report

The Project Information Report (PIR) is used for projects in the Traffic Systems Management (TSM) Program. It is the programming document used by an agency proposing to implement a project with funding through the TSM plan. The format is prescribed in the most current *TSM Program Guidelines* adopted by the California Transportation Commission (CTC). For projects on state highways these are HB4N, HB5 and HB6 projects and the PIR takes the place of the Project Study Report (PSR). It should be noted however that an identical project with funding proposed from some other source other than TSM would require the preparation of a PSR instead of a PIR.

Report Format

The PIR is prepared and submitted using the PIR form included in the following pages. These forms were copied from Appendix A of the *TSM Program Guidelines*. The Traffic Operations Program prepares these guidelines for CTC adoption. Each PIR should contain all of the information described.

Advisory

The PIR is an engineering report and must be prepared under the direction of a registered civil engineer. A sheet should be inserted behind the PIR cover sheet, containing the following statement and the stamp or seal and signature of the engineer in responsible charge:

"This Project Information Report has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based."

APPENDIX A

TSM PROJECT INFORMATION REPORT¹ Name Of Implementing Agency

District/County/Route or Street/ Kilometer Post (Postmile)
Project Fiscal Year

	Vicinity Map (or Street Map) Show: • Project Limits • Adjacent Facilities • North Arrow		
	Type of Project On Route (or Street) Between And In (City or County)		- -
PREPARED BY:	Title:	Date	
APPROVED BY:	Project Manager	Date	

Six (6) copies of the report should be submitted to the District Director by September 1 of the year preceding the fiscal year of the TSM plan. See the Regional Agency for number of copies required.

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SECTION 1. IDENTIFICATION OF THE PROJECT AND AGENCY

- A Project Title.
- B. Name and address of the agency responsible for the project.
- C. Names and addresses of other participating agencies.
- D. Name, title, telephone number, and FAX number of the person responsible for the contents of this project information report.
- E. Name, title, address, telephone number, and FAX number of the project manager.

SECTION 2. PROJECT DESCRIPTION

- A Describe in detail the work that would be funded under the proposed project.

 Describe specifically the land, equipment or facilities to be constructed or acquired as part of the project.
- B. Is the project single phased or part of a multi-phased project?
- C. Enclose an 216mm x 279mm (8 1/2 inch x 11 inch) project location map showing existing roadway features and proposed work (i.e. spacing between intersections, geometric details, equipment location, etc.)

SECTION 3. PROJECT STATUS AND SCHEDULE

- A Is the project consistent with a Congestion Management Program?
- B. Describe any environmental mitigation measures and/or unresolved environmental issues.
- C. Include a schedule for implementation including, but not limited to the following:

1.	Environmental Compliance	8.	Advertise Contract
2.	Agreement Signed ²	9.	Contract Awarded
3.	Encroachment Permit	10.	Begin Construction
4.	Consultant Contract	11.	End Construction
5.	Plans, Specifications & Estimate	12.	Final Expenditure Report
6.	Allocation Request	13.	Final Audit
7.	Right of Way Acquisition	14.	Other Kev Milestones

If a project involves more than one jurisdiction, a letter of agreement between all parties is required.

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SECTION 4. PROJECT NEED AND BENEFITS

A Project Need.

- 1. Describe in detail the congestion problem that this project will mitigate.
- Describe the traffic conditions on the roadways affected by the project including adjacent streets and highways. Include the current and proposed average daily traffic, peak hour volumes, operating speeds and delay.

B. Project Benefits

- Time Savings: Estimate the annual delay reduction (in dollars) resulting from the project. Include all calculations and assumptions used in making this calculation. Where appropriate, use the formula and time values in Attachment 1.
- 2. Person-Trip Capacity: Estimate the increase in the number of person-trips that could be carried on the street and/or highway system as a result of the project. Include all calculations and assumptions used to derive the estimate.
- 3. Level Of Service: Describe the current and expected level of service as a result of the project. Describe the basis for the above projection.
- 4. Congestion Management Program: Describe the relationship of the proposed project to other projects in the area, and its importance in implementing the area's Congestion Management Program.

SECTION 5. CAPITAL COSTS

Estimate the total capital cost of the project. The costs shall include all labor, materials, tools, equipment and incidentals necessary to complete the project. Provide a detailed breakdown of the capital costs including, **but not limited to the following:**

A Equipment Costs

1. Motorist Information System System

Changeable Message Signs Trailblazer Sign Highway Advisory Radio Master Controller 2. Closed Circuit Television

Central Control & Switching Cameras/Monitors

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3. Communication System

Trunk Cable

Underground Conduit

Communication Hardware

Intertie with Traffic Operations Center

6. Ramp Metering Systems

Expert System

Operating System

4. Software³

Detector Loops

Signal Equipment Controller

5. Traffic Operations Center Map Display

Media Communication Equipment

Mainline Computer

Changeable Message Sign Display

Computer Workstations

7. Traffic Signal Systems

Interconnect Cable

Controllers

Cabinets

Detector Loops

Pullboxes

Conduits

Emergency Vehicle Detection

B. Right Of Way Costs

- 1. Acquisition (including excess lands and damages to remainder)
- 2. Utility Relocation
- 3. Clearance/Demolition
- 4. Relocation Assistance
- 5. Title and Escrow Fees
- 6. Construction Contract Work

C. Roadway Costs4

1. Earthwork Items

Excavation/Backfill

Grading

Clearing & Grubbing

2. Structural Section Items

Pavement

Base/Subbase

Commercially Available - Software development costs are not to be included in this item.

Example of roadway work: widening for High Occupancy Vehicle bypass lanes, California Highway Patrol enforcement pads, turning lanes, intersection channelization, mainline High Occupancy Vehicle lanes, auxiliary lanes, and park and ride facilities, etc.

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- 3. Drainage Items
 Culverts
 Catch Basins/Drop Inlets
- 5. Traffic Control Items
 Lane Closures
 Detours

- 4. Structures

 Bridge Modifications
 Building Modifications
- 6. Miscellaneous Items
 Retaining Walls
 Barriers/Guardrails
 Curbs/Gutters
- D. Other costs not specifically mentioned in A though C.
- E. Contingencies Maximum 25% of total estimated capital cost.

SECTION 6. CAPITAL SUPPORT COSTS⁵

Provide a detailed explanation and estimate for capital support costs. Capital support costs may be provided by the applicant or a consultant. Capital support costs include the following:

A Project Development

- 1. Environmental Study
- 2. Design Engineering (Plans, Specifications, and Estimate)
- 3. Software Development (Note: software must be directly related to system operation)
- B. Construction Engineering
 - 1. Contract Administration
 - 2. Inspection
- C. Signal Timing Plan Development
 - 1. Optimization
 - 2. Simulation
 - 3. Implementation

Maximum support cost allowed is 35% of the total estimated capital cost. See Financial Guidelines for details and requirements for reimbursement of costs.

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ATTACHMENT 1 TYPICAL TIME SAVINGS CALCULATION

Calculate the time savings index (TSI) as follows:

TSI =
$$\underline{PWF \times [(C \times B \times D) \pm M \pm O] \times 100}$$

COST

where,

PWF = Present Worth Factor For "PWF" use the following:

Project Life (years)	Project Type	<u>PWF</u>
5	computer hardware/software	4.3
10	signing, striping	7.8
15 Operational	traffic signal, surveillance, motorist	10.5
Improvements	information, communication, ramp m	etering
20 Geometric	turning/auxiliary lanes, ramp widening	g, 12.6
Improvements	bus turnouts, high occupancy vehicle	
	lanes/bypass, park and ride facilities	

C = Cost per vehicle-minute For "C" use the following:

Percent Trucks"	C" Cost per Vehicle-Minute
0-2	\$0.12
3-7	\$0.13
8-12	\$0.14
13-17	\$0.15
18-22	\$0.16
23-27	\$0.17
28-32	\$0.18

B = Daily delay savings in vehicle-minutes (i.e. delay reduction resulting from the project).

D = # days per year the problem exists

For "D" use the following:

Weekend Traffic D = 115Recurrent Weekday Traffic D = 250Daily Traffic D = 365

M = Annual maintenance cost in dollars (subtract cost increases or add cost decreases in TSI calculation).

O = Annual operating cost in dollars (subtract cost increases or add cost decreases in TSI calculation).

COST = Capital cost (i.e. R/W and construction)